

PATENT APPLICATION

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of Kazutake OKAMOTO, et al.  
Group Art Unit : (Unassigned)  
Application No. : (Natl. Phase of PCT/JP2003/013577)  
Examiner : (Unassigned)  
Filed : (Herewith)  
Docket No. : 12477/9  
For : HEAT-RESISTANT FILM AND COMPOSITE ION-  
EXCHANGE MEMBRANE

INFORMATION DISCLOSURE STATEMENT

## COMMISSIONER FOR PATENTS

Customer Service Window

Randolph Bldg.

401 Dulany Street

Alexandria, VA 22314

Sir:

Pursuant to 37 CFR § 1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom. The filing of this Information Disclosure Statement and the enclosed PTO Form No. 1449, shall not be construed as an admission that the information cited is prior art, or is considered to be material to patentability as defined in 37 C.F.R. § 1.56(b). The paragraphs marked below are applicable. It is believed that no fees other than those indicated below are due, but authorization is hereby given to charge any additional fees due, or to credit any overpayment, to deposit account 11-0600.

☒ 1. This Information Disclosure Statement is being filed (a) within three months of the filing date of a national application other than a continued prosecution application under 37 C.F.R. § 1.53(d), (b) within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application, (c) before the mailing date of a first Office Action on the merits in the present application, OR (d) before the mailing of a first office action after filing of a request for continued examination. No certification or fee is required.

☐ 2. This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a final action, Notice of Allowance, or any action that otherwise closes prosecution.

☐ a. I hereby certify that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(1).

☐ b. I hereby certify that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(2).

☐ c. Please debit Deposit Account No. 11-0600 in the amount of \$180.00 in payment of the fee under 37 CFR §1.17(p) to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached. 37 CFR §1.97(c)(2).

3. This Information Disclosure Statement is being filed after the mailing date of a final action, Notice of Allowance or an action that otherwise closes prosecution, but before payment of the Issue Fee. Applicant(s) hereby request(s) that the Information Disclosure Statement be considered. Please debit Deposit Account No. 11-0600 in the amount of \$180.00 in payment of the petition fee under 37 CFR §1.17(p) to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached.

☐ a. I hereby certify that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(1).

☐ b. I hereby certify that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, no item contained in the Information Disclosure Statement was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(2).

☐ 4. Relevance of the non-English language reference(s) is discussed in the present specification.

☒ 5. Some of the reference(s) was/were cited in a counterpart foreign application. An English language version of the foreign search report is attached for the Examiner's information.

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6. A concise explanation of the relevance of the non-English language reference(s) appears in the Appendix attached hereto.

7. The Examiner's attention is directed to co-pending U.S. Patent Application No. \_\_\_\_\_, filed \_\_\_\_\_, which is directed to related technical subject matter. The identification of this U.S. Patent Application is not to be construed as a waiver of secrecy as to that application now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited application and the art cited therein during examination of the present application.

8. This application is one of a series of related applications, identified in the attached Appendix, which are directed to related technical subject matter. The identification of those U.S. Patent Applications is not to be construed as a waiver of secrecy as to those applications now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited applications and the art cited therein during the examination.

☐ 9. The reference(s) was/were cited by or submitted to the Office in parent application No. \_\_\_\_\_ filed \_\_\_\_\_, which is relied upon for an earlier filing date under 35 U.S.C. §120. Thus, copies of these references are not attached. 37 CFR §1.98(d).


☒ 10. English-language Abstracts are attached to the non-English language references.

☒ 11. No copies of U.S. references are required.

☒ 12. Other: **Please note that the third listed reference in the International Search Report seems to be incorrect. US 3,740,871 does not correspond to DE 3 740 871A nor to JP 63-141607A. Besides, US 3,740,871 is not relevant to this application. It is therefore believed that the correct US reference is US 4,840,733, which has been cited in form PTO/SB/08 instead of US 3,740,871.**

Respectfully submitted,

Date: 25 April 2005

  
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PTO/SB/08a (08-03)

Approved through 07/31/2006, OMB 0651-0031  
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	(Natl. Phase of PCT/JIP2003/013577)
Filing Date	(Herewith)
First Named Inventor	Kazutake OKAMOTO
Art Unit	(Unassigned)
Examiner Name	(Unassigned)

Sheet	1	of	3	Attorney Docket Number	12477/9
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**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
	1	US-4,840,733	06/20/89	SASAKI et al.	
	2	US-4,898,924	02/06/90	CHENEVEY et al.	
	3	US-4,939,235	07/03/90	HARVEY et al.	
	4	US-4,703,103	10/27/87	WOLFE et al.	
	5	US-4,533,692	08/06/85	WOLFE et al.	
	6	US-4,533,724	08/06/85	WOLFE et al.	
	7	US-4,533,693	08/06/85	WOLFE et al.	
	8	US-4,359,567	11/16/82	EVERS	
	9	US-4,578,432	03/25/86	TSIAI et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No.	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>
		Country Code <sup>3</sup> - Number <sup>2</sup> - Kind Code <sup>2</sup> (if known)					
	1	WO	99/10165	03/04/99	FOSTER MILLER INC.		
	2	WO	00/22684	04/20/00	FOSTER-MILLER INC.		
	3	JP	2002-86476	03/26/02	UBE INDUSTRIES, LTD		
	4	JP	9-302115	11/25/97	SUMITOMO CHEMICAL CO, LTD		
	5	JP	2002-146015	05/22/02	TOYOBO CO, LTD.		
	6	EP	718903	06/26/96	JAPAN GORE-TEX, INC.		
	7	JP	2001-294704	10/23/01	UBE INDUSTRIES, LTD		
	8	JP	2002-166218	06/11/02	TEIJIN LTD.		
	9	JP	8-155988	06/18/96	FUJIMORI KOGYO CO., LTD.		
	10	JP	2003-165128	06/10/03	UBE INDUSTRIES, LTD.		
	11	JP	9-132667	05/20/97	FUJIFILM PHOTO FILM CO., LTD.		
	12	JP	63-66233	03/24/88	ASAHI CHEMICAL INDUSTRY CO., LTD.		

Examiner Signature	/Krishnan Menon/ (02/26/2008)	Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes or USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. #496099

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Complete if Known 90/532428

<b>Application Number</b>	(Natl. Phase of PCT/JP2003/013577)
<b>Filing Date</b>	(Herewith)
<b>First Named Inventor</b>	Kazutake OKAMOTO
<b>Art Unit</b>	(Unassigned)
<b>Examiner Name</b>	(Unassigned)

Attorney Docket Number	12477/9
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Page No.
		Country Code <sup>2</sup> - Number <sup>3</sup> - Kind Code <sup>4</sup> (if known)				
	13	JP 2001-151902	06/05/01	KONICA CORP		
	14	JP 2002-283369	10/03/02	KANEGAFUCHI CHEM IND CO LTD		
	15	JP 03-183297	04/27/01	ASAHI KASEI KOGYO KK		
	16	JP 2001-151910	06/05/01	ASAHI KASEI CORP		
	17	JP 03 169684	06/08/01	TORAY IND INC		
	18	JP 2000-233439	08/29/00	TORAY IND INC		
	19	JP 09-118758	05/06/97	ASAHI CHEM IND CO LTD		
	20	JP 2000-273214	10/03/00	TORAY IND INC		
	21	JP 07-041559	02/10/95	TORAY IND INC		
	22	JP 10-226028	08/25/98	GUNZE LTD		
	23	JP 11-216344	08/10/99	NOK CORP		
	24	JP 08-162132	06/21/96	JAPAN GORE TEX INC		
	25	JP 2001-035508	02/09/01	ASAHI GLASS CO LTD		

Date Considered

**EXAMINER:** Initial if reference consoling, whether or not citation is in conformance with MPPE 609. Draw line through citation if not in conformance and mark "N" in the "Remarks" column. If not considered, include copy of this form with next communication to applicant. \* Applicant's unique citation designation number (optional). \* See Kind's unique citation designation number (optional). \* See S.I.3. \* For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \* Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. \* Applicant is to place check mark here if the document is a translation of a foreign patent document. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain a patent or retain a benefit by the public which is to file (and the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.4. This collection is estimated to take 2 hours to fill out. If you are unable to fill out this form, please contact the nearest USPTO office. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22315-1450. DO NOT SEND FEES OR CHECKS TO THIS OFFICE.

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

3

Q

13

Application Number

**Complete if Known**

(附: 本圖在 1954 年 11 月 1 日以前)

Filing Date

(Herewith)

**First Named Inventor**

Kazutake OKAMOTO

Art Unit

(Unassigned)

Examiner Name

(Unassigned)

Attorney Docket Number

12477/9

### NON PATENT LITERATURE DOCUMENTS

[illegible]

Examiner  
Signature

/Krishnan Menon/ (02/26/2008)

Date \_\_\_\_\_

Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique data/invention designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.58. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form, or any suggestions for changes or improvements should be sent to the U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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